Contents

Arneson, A. C.: see Nealson, K. H. et al., 77
Au, D.: see Smith, R. C. et al., 385

Bagarinao, T.: Yolk resorption, onset of feeding and survival potential of larvae of three tropical marine fish species reared in the hatchery 449
Bailey, T. G.; Robison, B. H.: Food availability as a selective factor on the chemical compositions of midwater fishes in the eastern North Pacific 131
Baker, K. S.: see Smith, R. C. et al., 385
Batty, R. S.; Blaxter, J. H. S.; Libby, D. A.: Herring (*Clupea harengus*) filter-feeding in the dark 371
Bellan-Santini, D.: see Desrosiers, G. et al., 107
Bjerregaard, P.; Vislie, T.: Effect of copper on ion- and osmoregulation in the shore crab *Carcinus maenas* 69
Blaxter, J. H. S.: see Batty, R. S. et al., 371
Boon, P. I.; Moriarty, D. J. W.; Saffigna, P. G.: Rates of ammonium turnover and the role of amino-acid deamination in seagrass (*Zostera capricorni*) beds of Moreton Bay, Australia 259
Boon, P. I.; Moriarty, D. J. W.; Saffigna, P. G.: Nitrate metabolism in sediments from seagrass (*Zostera capricorni*) beds of Moreton Bay, Australia 269
Bradley, B. P.: Genetic expression of temperature tolerance in the copepod *Eurytemora affinis* in different salinity and temperature environments 561
Brethes, J.-C.: see Desrosiers, G. et al., 107
Britvić, S.: see Kurelec, B. et al., 523

Camilleri, J. C.; Ribi, G.: Leaching of dissolved organic carbon (DOC) from dead leaves, formation of flakes from DOC, and feeding on flakes by crustaceans in mangroves 337
Campbell, L.: see Glover, H. E. et al., 193
Cardinal, A.: see Lamontagne, I. et al., 409
Caubergs, R.: see Van der Linden, A. et al., 239
Cetta, C. M.; Madin, L. P.; Kremer, P.: Respiration and excretion by oceanic salps 529
Choat, J. H.: see Kingsford, M. J., 161
Clarke, M. R.: see Rodhouse, P. G., 353

Davis, W. R.: see Pruell, R. J. et al., 497
Decleir, W.: see Van der Linden, A. et al., 239
Desrosiers, G.; Bellan-Santini, D.; Brethes, J.-C.: Organisation trophique de quatre peuplements de substrats rocheux selon un gradient de pollution industrielle (Golfe de Fos, France). [Trophic organisation of four rock-bottom assemblages along a gradient of industrial pollution (Gulf of Fos, France)] 107
Diel, S.; Klein Breteler, W. C. M.: Growth and development of *Calanus* spp. (Copepoda) during spring phytoplankton succession in the North Sea 85
Diesel, R.: Population dynamics of the commensal spider crab *Inachus phalangium* (Decapoda: Maiidae) 481
Donachy, J. E.; Watabe, N.: Effects of salinity and calcium concentration on arm regeneration by *Ophiothrix angulata* (Echinodermata: Ophiuroidea) 253
Dunlap, E. A.: see Smith, R. C. et al., 385
Dunn, J. F.; Johnston, I. A.: Metabolic constraints on burst-swimming in the Antarctic teleost *Notothenia neglecta* 433
Dustan, P.: see Smith, R. C. et al., 385

Ellington, W. R.: see Gäde, G. et al., 473

Falkowski, L.: see Jarzębski, A. et al., 27
Flierl, G. R.: see Franks, P. J. S. et al., 121
Fortier, L.: see Lamontagne, I. et al., 409
Franks, P. J. S.; Wroblewski, J. S.; Flierl, G. R.: Behavior of a simple plankton model with food-level acclimation by herbivores 121
Franz, D. R.: Seasonal changes in pyloric caecum and gonad indices during the annual reproductive cycle in the seastar *Asterias forbesi* 553
Fricke, H. W.: see Schlichter, D. et al., 403
Fujita, Y.: see Ohki, K. et al., 9
Fukui, Y.: Catch tentacles in the sea anemone *Haliplanella luciae*. Role as organs of social behavior 245
Fyhn, H. J.: see Hølleland, T., 377

Gäde, G.; Graham, R. A.; Ellington, W. R.: Metabolic disposition of lactate in the horseshoe crab *Limulus polyphemus* and the stone crab *Menippe mercenaria* 473
Gieskes, W. W.; Kraay, G. W.: Floristic and physiological differences between the shallow and the deep nanophytoplankton community in the euphotic zone of the open tropical Atlantic revealed by HPLC analysis of pigments 567
Gilmer, R. W.; Harbison, G. R.: Morphology and field behavior of pteropod molluscs: feeding methods in the families Cavoliniidae, Limacinidae and Peraclididae (Gastropoda: Thecosomata) 47
Glover, H. E.; Campbell, L.; Prézelin, B. B.: Contribution of *Synechococcus* spp. to size-fractioned primary productivity in three water masses in the Northwest Atlantic Ocean 193
Glover, H. E.: see Prézelin, B. B. et al., 205
Graham, J. B.: see Rubinoff, I. et al., 181
Graham, R. A.: see Gäde, G. et al., 473

Hall, S. J.; Wardle, C. S.; MacLennan, D. N.: Predator evasion in a fish school: test of a model for the fountain effect 143
Handa, N.: see Matsueda, H. et al., 421
Hara, S.: see Tanoue, E., 359
Harbison, G. R.: see Gilmer, R. W., 47
Haydock, C. I.: see Stull, J. K. et al., 539
Helmke, E.; Weyland, H.: Effect of hydrostatic pressure and temperature on the activity and synthesis of chitinases of Antarctic Ocean bacteria 1
Hill, B. J.: see Skinner, D. G., 461
Hølleland, T.; Fyhn, H. J.: Osmotic properties of eggs of the herring *Clupea harengus* 377
Huber, M. E.: see Nealson, K. H. et al., 77

Ina, K.: see Sakata, K. et al., 509
Inoue, I.: see Matsueda, H. et al., 421

Jannasch, H. W.: see Wirsen, C. O., 277
Jarzębski, A.; Polak, L.; Wenne, R.; Falkowski, L.: Microgeographic differentiation in the lipid composition of the bivalve *Macoma balthica* from the Gulf of Gdańsk (Southern Baltic) 27
Johnson, K. S.: see Willason, S. W., 285
Johnston, I. A.: see Dunn, J. F., 433
Jokiel, P. L.; Morrissey, J. I.: Influence of size on primary production in the reef coral *Pocillopora damicornis* and the macroalga *Acanthophora spicifera* 15

Katzir, G.; Schechtman, E.: Interactions during feeding among certain coral reef fishes in Elat 441
Kingsford, M. J.; Choat, J. H.: Influence of surface slicks on the distribution and onshore movements of small fish 161
Klein Breteler, W. C. M.: see Diel, S., 85
Kojis, B. L.: Sexual reproduction in *Acropora* (*Isopora*) species (Coelenterata: Scleractinia). I. *A. cuneata* and *A. palifera* on Heron Island reef, Great Barrier Reef 291
Kojis, B. L.: Sexual reproduction in *Acropora* (*Isopora*) (Coelenterata: Scleractinia). II. Latitudinal variation in *A. palifera* from the Great Barrier Reef and Papua New Guinea 311
Kolding, S.: Interspecific competition for mates and habitat selection in five species of *Gammarus* (Amphipoda: Crustacea) 491
Kraay, G. W.: see Gieskes, W. W., 567
Krča, S.: see Kurelec, B. et al., 523
Kremer, P.: see Cetta, C. M. et al., 529
Kurelec, B.; Britvić, S.; Krča, S.; Zahn, R. K.: Metabolic fate of aromatic amines in the mussel *Mytilus galloprovincialis* 523

Kyomo, J.: Reproductive activities in the sesarmid crab *Sesarma intermedia* in the coastal and estuarine habitats of Hakata, Japan 319

Lacroix, G.: see Simard, Y. et al., 93
Lake, J. L.: see Pruell, R. J. et al., 497
Lamontagne, I.; Cardinal, A.; Fortier, L.: Intertidal microalgal production and the auxiliary energy of tides 409
Legendre, L.: see Simard, Y. et al., 93
Legović, T.: see Peternac, B., 467
Levinton, J. S.: see Lonsdale, D. J., 231
Libby, D. A.: see Batty, R. S. et al., 371
Lonsdale, D. J.; Levinton, J. S.: Growth rate and reproductive differences in a widespread estuarine harpacticoid copepod (*Scottolana canadensis*) 231

MacLennan, D. N.: see Hall, S. J. et al., 143
Madin, L. P.: see Cetta, C. M. et al., 529
Matsueda, H.; Handa, N.; Inoue, I.; Takano, H.: Ecological significance of salp fecal pellets collected by sediment traps in the eastern North Pacific 421
Meulstee, C.; Nienhuis, P. H.; Van Stokkom, H. T. C.: Biomass assessment of estuarine macrophytobenthos using aerial photography 331
Montagne, D. E.: see Stull, J. K. et al., 539
Moriarty, D. J. W.: see Boon, P. I. et al., 259
Moriarty, D. J. W.: see Boon, P. I. et al., 269
Morrissey, J. I.: see Jokiel, P. L., 15
Motta, J.: see Rubinoff, I. et al., 181

Nealson, K. H.; Arneson, A. C.; Huber, M. E.: Identification of marine organisms using kinetic and spectral properties of their bioluminescence 77
Nielsen, M. V.: see Strömgren, T. et al., 33
Nienhuis, P. H.: see Meulstee, C. et al., 331

Ohki, K.; Rueter, J. G.; Fujita, Y.: Cultures of the pelagic cyanophytes *Trichodesmium erythraeum* and *T. thiebautii* in synthetic medium 9

Pawlik, J. R.: Chemical induction of larval settlement and metamorphosis in the reef-building tube worm *Phragmatopoma californica* (Sabellariidae: Polychaeta) 59
Peternac, B.; Legović, T.: Uptake, distribution and loss of Cr in the crab *Xantho hydrophilus* 467
Polak, L.: see Jarzębski, A. et al., 27
Prézelin, B. B.; Putt, M.; Glover, H. E.: Diurnal patterns in photosynthetic capacity and depth-dependent photosynthesis-irradiance relationships in *Synechococcus* spp. and larger phytoplankton in three water masses in the Northwest Atlantic Ocean 205
Prézelin, B. B.: see Glover, H. E. et al., 193
Pruell, R. J.; Lake, J. L.; Davis, W. R.; Quinn, J. G.: Uptake and depuration of organic contaminants by blue mussels (*Mytilus edulis*) exposed to environmentally contaminated sediment 497
Putt, M.: see Prézelin, B. B. et al., 205

Quinn, J. G.: see Pruell, R. J. et al., 497

Reinhardt, S. B.; Van Vleet, E. S.: Lipid composition of twenty-two species of Antarctic midwater zooplankton and fish 149
Ribi, G.: see Camilleri, J. C., 337
Robison, B. H.: see Bailey, T. G., 131
Rodhouse, P. G.; Clarke, M. R.: Distribution of the early-life phase of the Antarctic squid *Galiteuthis glacialis* in relation to the hydrology of the Southern Ocean in the sector 15° to 30°E 353
Rubinoff, I.; Graham, J. B.; Motta, J.: Diving of the sea snake *Pelamis platurus* in the Gulf of Panamá. I. Dive depth and duration 181
Rueter, J. G.: see Ohki, K. et al., 9

Saffigna, P. G.: see Boon, P. I. et al., 259
Saffigna, P. G.: see Boon, P. I. et al., 269
Sainte-Marie, B.: Feeding and swimming of lysianassid amphipods in a shallow cold-water bay 219
Sakata, K.; Tsuge, M.; Ina, K.: A simple bioassay for feeding-stimulants for the young seahare *Aplysia juliana* 509
Schechtman, E.: see Katzir, G., 441
Schlichter, D.; Fricke, H. W.; Weber, W.: Light harvesting by wavelength transformation in a symbiotic coral of the Red Sea twilight zone 403
Simard, Y.; Lacroix, G.; Legendre, L.: Diel vertical migrations and nocturnal feeding of a dense coastal krill scattering layer (*Thysanoessa raschi* and *Meganyctiphanes norvegica*) in stratified surface waters 93
Skinner, D. G.; Hill, B. J.: Catch rate and emergence of male and female spanner crabs (*Ranina ranina*) in Australia 461
Smith, P. J.: Genetic similarity between samples of the orange roughy *Hoplostethus atlanticus* from the Tasman Sea, South-west Pacific Ocean and North-east Atlantic Ocean 173
Smith, R. C.; Dustan, P.; Au, D.; Baker, K. S.; Dunlap, E. A.: Distribution of cetaceans and sea-surface chlorophyll concentrations in the California Current 385
Smith, R. W.: see Stull, J. K. et al., 539
Sommer, U.: Nitrate- and silicate-competition among antarctic phytoplankton 345
Sprung, M.; Widdows, J.: Rate of heat dissipation by gametes and larval stages of *Mytilus edulis* 41
Strömgren, T.; Nielsen, M. V.; Ueland, K.: Short-term effect of microencapsulated hydrocarbons on shell growth of *Mytilus edulis* 33
Stull, J. K.; Haydock, C. I.; Smith, R. W.; Montagne, D. E.: Long-term changes in the benthic community on the coastal shelf of Palos Verdes, Southern California 539

Takano, H.: see Matsueda, H. et al., 421
Tanoue, E.; Hara, S.: Ecological implications of fecal pellets produced by the Antarctic krill *Euphausia superba* in the Antarctic Ocean 359
Tsuge, M.: see Sakata, K. et al., 509

Ueland, K.: see Strömgren, T. et al., 33

Van der Linden, A.; Vankerckhoven, I.; Caubergs, R.; Decleir, W.: Action spectroscopy of light-induced hatching of *Artemia* cysts (Branchiopoda: Crustacea) 239
Vankerckhoven, I.: see Van der Linden, A. et al., 239
Van Stokkom, H. T. C.: see Meulstee, C. et al., 331
Van Vleet, E. S.: see Reinhardt, S. B., 149
Vislie, T.: see Bjerregaard, P., 69

Wardle, C. S.: see Hall, S. J. et al., 143
Watabe, N.: see Donachy, J. E., 253
Weber, W.: see Schlichter, D. et al., 403
Wenne, R.: see Jarzębski, A. et al., 27
Weyland, H.: see Helmke, E., 1
Widdows, J.: see Sprung, M., 41
Willason, S. W.; Johnson, K. S.: A rapid, highly sensitive technique for the determination of ammonia in seawater 285
Wirsen, C. O.; Jannasch, H. W.: Microbial transformations in deep-sea sediments: free-vehicle studies 277
Wroblewski, J. S.: see Franks, P. J. S. et al., 121

Young, C. M.: Defenses and refuges: alternative mechanisms of coexistence between a predatory gastropod and its ascidian prey 513

Zahn, R. K.: see Kurelec, B. et al., 523

Corrigenda 432

Indexed in *Current Contents*